```java
/*
        GOPIKRISHNA V
        52
        S3 CSE A
        Quick Sort
*/
import java.util.*;
public class pgm12
{
        public static void quickSort(String A[], int p, int r)
        {
                if (p < r)
                {
                        int q = partition (A, p, r);
                        quickSort (A, p, q - 1);
                        quickSort (A, q + 1, r);
                }
        }
        public static int partition(String A[], int p, int r)
        {
                String x = A[r];
                int i = p - 1;
                for (int j = p; j <= r - 1; j++)
                {
                        if (A[j].compareToIgnoreCase(x) <= 0)
                        {
                                i = i + 1;
                                String temp = A[i];
                                A[i] = A[j];
                                A[j] = temp;
                        }
                }
                String temp = A[i + 1];
                A[i + 1] = A[r];
                A[r] = temp;
                return i + 1;
        }
        public static void main(String args[])
        {
                Scanner sc = new Scanner (System.in);
                System.out.print("Enter the limit = ");
                int n = sc.nextInt();
                sc.nextLine();
                String A[] = new String[n];
                System.out.print("Enter the Values (String)\n");
                for (int i = 0; i < n; i++)
                {
                        A[i] = sc.nextLine ();
```
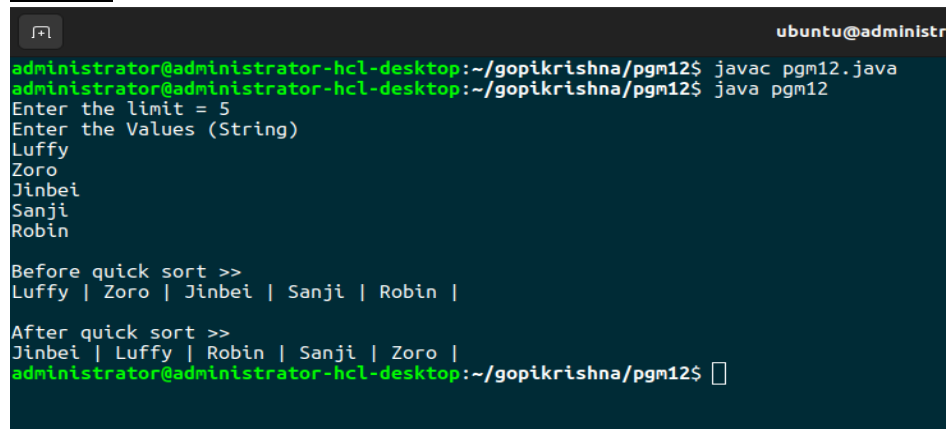
```
		}
		System.out.println("\nBefore quick sort >> ");
		for (int i = 0; i < n; i++)
		{
			System.out.print(A[i]+" | ");
		}
		System.out.print("\n");
		quickSort(A, 0, n - 1);
		System.out.println("\nAfter quick sort >> ");
		for (int i = 0; i < n; i++)
		{
			System.out.print(A[i]+" | ");
		}
		System.out.print("\n");
	}
}
```
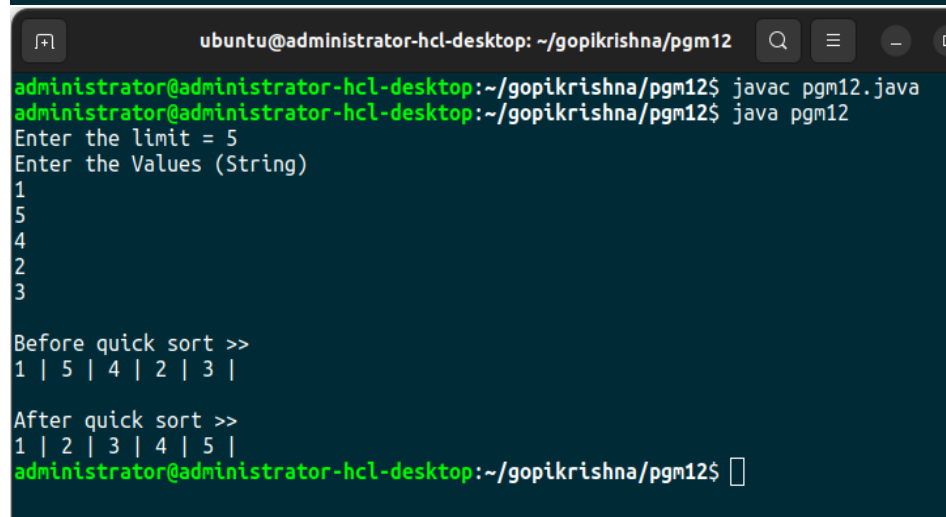
OUTPUT